

TRIBUTARIES BETWEEN DOLORES RIVER AND GREEN RIVER

09183500 MILL CREEK AT SHELEY TUNNEL, NEAR MOAB, UT

LOCATION.--Lat 38°28'59", long 109°24'12", in NW¹/₄NW¹/₄SW¹/₄, sec. 4, T. 27 S., R. 23 E. in San Juan County, Hydrologic Unit 14030005 on the left bank 1,000 ft above Sheley Tunnel, and 9 mi southeast of Moab.

DRAINAGE AREA.--26.8 mi².

PERIOD OF RECORD.--October 1954 to September 1959, October 1987 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,500 ft above sea level, from a topographic map. Prior to October 1, 1987 at different site and datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Small diversion for irrigation above the station. Sheley Tunnel, which diverts water from Mill Creek for K. E. McDougald Reservoir, is located 1,000 ft below the gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,080 ft³/s, Aug 8, 1993, gage height, 7.66 ft from floodmarks, from rating curve extended above 340 ft³/s, on basis of slope-area measurement of peak flow; minimum recorded, 2.1 ft³/s, Apr 5, 1955.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 90 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jul 8	2130	96	3.25	Jul 14	1445	*242	*4.20

Minimum daily discharge, 3.9 ft³/s, Dec 18, Feb 9.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.9	5.9	5.2	4.6	e4.3	4.6	5.3	19	23	8.7	8.1	9.0
2	5.6	5.5	5.2	4.6	4.8	4.4	5.7	23	22	e8.7	8.4	8.9
3	5.5	5.5	5.2	e4.6	4.6	4.5	5.8	19	22	8.1	8.6	8.7
4	6.3	5.5	5.2	4.6	4.5	4.4	5.8	15	20	8.1	9.5	8.5
5	4.8	5.7	5.2	4.7	4.6	4.5	6.0	14	18	8.1	9.1	8.3
6	4.9	6.2	5.2	4.6	4.7	4.5	6.6	13	17	8.3	9.9	8.3
7	4.8	5.0	5.2	4.6	4.7	4.7	5.5	13	16	8.2	10	e8.4
8	5.0	5.2	5.2	e4.5	4.6	4.6	5.8	15	15	11	10	8.3
9	5.0	6.3	5.4	4.6	3.9	4.6	5.2	20	15	12	12	8.1
10	4.8	6.3	5.3	4.7	4.6	4.7	5.2	24	15	11	16	7.9
11	5.3	6.1	5.2	4.6	4.6	4.8	5.2	29	14	9.9	17	7.8
12	5.3	5.3	5.3	4.7	4.4	e4.7	5.0	30	14	9.4	17	7.4
13	5.0	5.0	5.1	4.9	4.4	4.5	4.8	31	14	10	18	8.0
14	4.9	5.3	5.0	4.7	4.4	4.5	5.0	37	13	23	20	7.6
15	4.9	5.9	4.9	4.9	4.4	4.1	5.4	38	13	e14	17	7.2
16	4.8	5.5	4.6	4.7	4.3	4.6	6.5	35	12	e12	15	7.1
17	4.8	5.2	4.9	e4.6	4.4	4.6	7.3	36	12	e12	14	7.5
18	5.1	e5.0	3.9	e4.7	4.5	4.5	8.5	35	11	e11	14	7.7
19	5.1	e4.8	e4.0	e4.5	4.5	4.5	9.5	36	11	11	13	7.0
20	5.1	e5.0	5.1	e5.0	4.4	4.6	10	35	10	10	13	6.9
21	5.1	5.8	5.0	e4.7	4.5	4.9	9.1	32	9.9	10	12	6.5
22	5.6	5.8	4.9	e5.1	4.4	5.2	8.6	26	9.9	9.7	13	6.4
23	6.5	5.7	4.8	e4.9	4.6	5.3	8.0	24	10	9.5	12	6.3
24	8.2	5.6	4.8	e4.8	4.5	5.4	8.5	24	10	9.3	11	6.3
25	5.6	5.5	4.8	4.6	4.4	5.5	9.5	25	9.8	9.3	11	6.2
26	5.4	5.5	4.7	4.5	4.5	5.6	11	27	10	9.3	10	6.2
27	5.3	5.6	e4.6	4.6	4.6	5.4	13	30	10	9.2	9.8	6.2
28	5.3	5.5	4.7	4.7	5.0	5.3	13	31	9.8	8.6	9.5	6.2
29	5.2	5.4	4.8	4.6	---	5.2	16	29	9.4	8.3	9.4	6.1
30	5.1	5.3	4.7	4.6	---	5.0	17	27	8.8	8.2	9.8	5.9
31	6.6	---	4.7	4.5	---	5.1	---	25	---	8.3	9.7	---
TOTAL	166.8	165.9	152.8	145.0	126.1	148.8	237.8	817	404.6	314.2	376.8	220.9
MEAN	5.38	5.53	4.93	4.68	4.50	4.80	7.93	26.4	13.5	10.1	12.2	7.36
MAX	8.2	6.3	5.4	5.1	5.0	5.6	17	38	23	23	20	9.0
MIN	4.8	4.8	3.9	4.5	3.9	4.1	4.8	13	8.8	8.1	8.1	5.9
AC-FT	331	329	303	288	250	295	472	1620	803	623	747	438

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955-59, 1988-2001, BY WATER YEAR (WY)

	1955	1956	1957	1958	1959	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	8.54	7.47	6.76	6.20	5.80	6.41	11.0	28.1	27.0	14.5	10.4	8.73							
MAX	15.4	15.6	11.0	8.82	8.06	9.43	22.2	70.5	67.9	40.7	18.7	13.5							
(WY)	1998	1988	1988	1988	1988	1988	1958	1958	1957	1995	1993	1993							
MIN	4.84	3.89	4.30	4.60	4.48	4.80	5.42	8.03	7.08	5.32	4.69	5.00							
(WY)	1957	1957	1955	1957	1956	2001	1990	1990	1959	1959	1990	1959							

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SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1955-59, 1988-2001	
ANNUAL TOTAL	3109.8		3276.7			
ANNUAL MEAN	8.50		8.98		11.8	
HIGHEST ANNUAL MEAN					20.4	
LOWEST ANNUAL MEAN					6.13	
HIGHEST DAILY MEAN	32	May 5	38	May 15	141	May 27 1993
LOWEST DAILY MEAN	3.9	Dec 18	3.9	Dec 18	2.8	Nov 2 1956
ANNUAL SEVEN-DAY MINIMUM	4.6	Dec 13	4.4	Feb 9	3.2	Oct 30 1956
ANNUAL RUNOFF (AC-FT)	6170		6500		8530	
10 PERCENT EXCEEDS	16		17		23	
50 PERCENT EXCEEDS	6.2		5.8		7.6	
90 PERCENT EXCEEDS	5.0		4.6		5.0	

e Estimated

